This program demonstrates different scoping situations. Fill in each blank with a list of variables that are “within scope” (“visible”) at that point in the code. Also, draw a line through each line that will fail to compile.

// Exercise 5, CS 100 Summer 2001
public class Exercise5
{
    public static void main(String[] args)
    {
        int a = 1;
        int b = 3;
        {
            int c = 4;

            for (int z = 0; z <= 1; z++)
            {
                System.out.println("Hi!");
                if (a == b)
                {
                    int d = 5;
                    z = 4;
                    e += 2;
                }
            }
        }
        b++;

        if (b > a)
        {
            z = b / a;
        }
    }
}